



SCOPE OF WORK (SOW) UNCLASSIFIED THE EMBASSY COMPOUND, KUWAIT CITY, KUWAIT HEREAFTER KNOWN AS THE EMBASSY COMPOUND, WILL RETAIN THE SERVICES OF A LOCAL CONTRACTOR TO PERFORM THE BELOW SCOPE OF WORK FOR THE HANDHOLE AND UNDERGROUND CONDUIT CONSTRUCTIONS. THE EMBASSY COMPOUND WILL 1.C.5. THE EMBASSY COMPOUND SECURITY REQUIREMENTS CONSOLIDATE CONCRETE BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING, OR TAMPING. USE EQUIPMENT AND PROCEDURES TO CONSOLIDATE CONCRETE TO BE DETERMINED BY POST SECURITY. ACCORDING TO RECOMMENDATIONS IN ACI 309R. HANDLE ALL THE CONTRACT LEGAL REQUIREMENTS WITH THE LOCAL 2. INFRASTRUCTURE SUPPORT SYSTEM SCREED PAVEMENT SURFACES WITH A STRAIGHTEDGE AND STRIKE CONTRACTOR. DS/FSE/PME (HEREAFTER REFERRED TO AS PME) WILL PROVIDE 2.A. HANDHOLE/UNDERGROUND CONDUIT SYSTEM OFF. COMMENCE INITIAL FLOATING USING BULL FLOATS OR DARBIES TO FORM AN OPEN TEXTURED AND UNIFORM SURFACE THIS DOCUMENT OUTLINES THE SCOPE OF WORK AND SPECIFICATIONS FOR THE LOCAL CONTRACTOR AS FOLLOWS: PLANE BEFORE EXCESS MOISTURE OR BLEED WATER APPEARS ON 2.A.1. TRENCH THE SURFACE. DO NOT FURTHER DISTURB CONCRETE SURFACES
BEFORE BEGINNING FINISHING OPERATIONS OR SPREADING THE LOCAL CONTRACTOR WILL VERIFY EXISTING UTILITIES AND PROVIDE AS-BUILT DRAWINGS PRIOR TO EXCAVATING OF TRENCH. IF THE EXCAVATION WORK INTERFERES WITH DRAIN OR PIPING, THE LOCAL DRY-SHAKE SURFACE TREATMENTS. GENERAL 1.A. DESIGN DRAWINGS AND SPECIFICATIONS CONTRACTOR SHALL INFORM THE EMBASSY COMPOUND AND PROVIDE SUITABLE PROTECTION FOR THESE STRUCTURES PRIOR TO PROCEEDING CONCRETE FINISHING GENERAL: WETTING OF CONCRETE SURFACES DURING SCREEDING, PME WILL PROVIDE THE DESIGN PACKAGE AND SPECIFICATIONS FOR THE WITH THE WORK IF EXCAVATION CANNOT PROCEED DUE TO EXISTING CONSTRUCTION OF THE UNDERGROUND INFRASTRUCTURE AND HANDHOLES. IT IS THE LOCAL CONTRACTORS RESPONSIBILITY TO REVIEW AND OBSTACLES THEN THE EMBASSY COMPOUND AND OR THE INITIAL FLOATING, OR FINISHING OPERATIONS IS PROHIBITED. CONSTRUCTION SUPERVISOR WILL PROVIDE A NEW CONDUIT ROUTE. UNDERSTAND THE WORK INVOLVED AND WHAT IS REQUIRED TO COMPLETE THE PROJECT. IF ANY ERROR OR INCONSISTENCIES ARE FOUND ON THE FLOAT FINISH: BEGIN THE SECOND FLOATING OPERATION WHEN ALL TRENCHES WILL BE EXCAVATED TO THE REQUIRED DEPTH BLEED-WATER SHEEN HAS DISAPPEARED AND THE CONCRETE DRAWINGS, THE LOCAL CONTRACTOR WILL BRING THESE TO THE ATTENTION ACCORDING TO SPECIFICATIONS AND CONDUIT TYPE AS SHOWN ON SURFACE HAS STIFFENED SUFFICIENTLY TO PERMIT OPERATIONS FLOAT SURFACE WITH POWER-DRIVEN FLOATS, OR BY HAND FLOATING IF AREA IS SMALL OR INACCESSIBLE TO POWER UNITS. FINISH SURFACES TO TRUE PLANES. CUT DOWN HIGH SPOTS, AND OF THE EMBASSY COMPOUND AND/OR PME THE LOCAL CONTRACTOR WILL BUILD THE INFRASTRUCTURE FOR THE THE LOCAL CONTRACTOR MUST KEEP ALL DEBRIS AND EXCAVATED MATERIAL CLEAR OF SERVICE NETWORK DRAINS, COVERS AND SUMPS FILL LOW SPOTS. REFLOAT SURFACE IMMEDIATELY TO UNIFORM HANDHOLES, PULL BOXES, AND UNDERGROUND CONDUIT AS OUTLINED IN NEAR THE TRENCHES, TO PREVENT CLOGS OR DAMAGE. GRANULAR TEXTURE BURLAP FINISH: DRAG A SEAMLESS STRIP OF DAMP BURLAP THE LOCAL CONTRACTOR SHALL HAVE A RESIDENT INSTALL WARNING AND SAFETY SIGNS TO ALERT PEDESTRIANS AND ACROSS FLOAT-FINISHED CONCRETE, PERPENDICULAR TO LINE VEHICLE TRAFFIC OF CONSTRUCTION OF TRENCH. REGISTERED/CERTIFIED/LICENSED CIVIL ENGINEER OR GRADUATE ARCHITECT OF TRAFFIC, TO PROVIDE A UNIFORM, GRITTY TEXTURE ON SITE OR A QUALIFIED CONSTRUCTION SUPERVISOR AT ALL TIMES, WHO SHOULD HAVE AT LEAST TWO YEARS EXPERIENCE IN SIMILAR WORK AND INSTALL BARRICADE LINES TO CORDON OFF WORK AREA AROUND MEDIUM-TO-FINE-TEXTURED BROOM FINISH: DRAW A SOFT BRISTLE BROOM ACROSS FLOAT-FINISHED CONCRETE SURFACE CAN SPEAK, WRITE AND READ ENGLISH AT A MODERATE OR HIGHER LEVEL. THE LOCAL CONTRACTOR SHALL SUBMIT THE CURRICULUM VITAE OF THE DISPOSE OF EXCAVATED MATERIAL THAT WILL NOT BE USED TO PERPENDICULAR TO LINE OF TRAFFIC TO PROVIDE A UNIFORM, RESIDENT ENGINEER TO THE EMBASSY COMPOUND FOR APPROVAL. FINE-LINE TEXTURE BACKFILL TRENCH THE LOCAL CONTRACTOR WILL PROVIDE A DETAILED PROJECT SCHEDULE, - MEDIUM-TO-COARSE-TEXTURED BROOM FINISH: PROVIDE A COARSE FINISH BY STRIATING FLOAT-FINISHED CONCRETE WITH START AND END DATES FOR WORK ACTIVITIES AND STATING A 2.A.2. HANDHOLE (WITH DRAINAGE) NEW LOCKABLE HANDHOLES WILL BE INSTALLED BY THE LOCAL SURFACE 1/16-INCH (1.6MM) TO 1/8-INCHES (3MM) THE LOCAL CONTRACTOR WILL PROVIDE THE EMBASSY COMPOUND WITH WEEKLY WORK PROGRESS REPORTS AND CONSTRUCTION SCHEDULE DEEP WITH A STIFF-BRISTLED BROOM. PERPENDICULAR TO CONTRACTOR AS SPECIFIED ON DETAIL DRAWINGS LINE OF TRAFFIC UPDATES DURING THE DURATION OF THE PROJECT. ALL NEW HANDHOLE(S) WILL BE INSTALLED WHEN CONDUIT RUNS EXCEED 180 DEGREES OR AT 200FT AND WILL HAVE PROPER 2 A 6 SOIL MATERIALS THE EMBASSY COMPOUND WILL HAVE FINAL APPROVAL OF ALL WORK SELECT BACKELLY ASTM D 2487 SOIL CLASSIFICATION GROUPS SW PERFORMED BY THE LOCAL CONTRACTOR. SP, AND SM, OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3-INCHES (75MM) IN ANY DIMENSION, LOCAL CONTRACTOR WILL MAKE HOLE PENETRATIONS TO THE EXISTING MANHOLES ACCORDING TO NUMBER OF CONDUITS ENTERING AND EXITING THE MANHOLE. DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER 1.B.1. PME PROVIDED MATERIALS DELETERIOUS MATTER. THE BASE OF THE HANDHOLE(S) SHALL BE PLACED OVER BASE (ASPHALT/CONCRETE) BASE COURSE: NATURALLY OR ARTIFICIALLY PMF WILL PROVIDE ALL MATERIALS FOR THIS CONTRACTORS PACKAGE CONSISTING OF CRUSHED NON-POROUS ROCK BASE OR GRAVEL AND GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; WITH AT SAND. THE GRAVEL SIZE SHALL NOT EXCEED 1/2 INCH (13MM). 1.C. SITE AND SAFETY REQUIREMENTS LEAST 95 PERCENT PASSING A 1-1/2-INCH (40MM) SIEVE AND NOT 1.C.1. SITE INSTALLATION OVERSIGHT MORE THAN 8 PERCENT PASSING A 1/4-INCH (6.4MM) SIEVE. ALL EXISTING CONDUIT SHOULD BE LEFT IN PLACE. A SECURITY INSTALLATION SUPERVISOR REPRESENTING PME WILL BE ON SITE TO PROVIDE DESIGN INSTALLATION OVERSIGHT FOR ALL WORK BASE GRAVEL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; EXCEPT WITH 100 PERCENT PASSING UNDER GRASS, DIRT, SIDEWALK OR ASPHALT, INSTALL SCHEDULE 80 IN THIS CONTRACTORS PACKAGE. PVC CONDUIT 24 INCHES (610MM) BELOW FINISH GRADE TO THE TOP OF THE CONDUIT AS SPECIFIED ON THE DRAWINGS. A 1-INCH (25MM) SIEVE AND NOT MORE THAN 8 PERCENT PASSING THE INSTALLATION CONTRACTOR WILL BE RESPONSIBLE FOR MANAGING A 1/4-INCH (6 4MM) SIEVE AND SUPERVISING ALL ACTIVITIES UNDERTAKEN BY LOCAL CONTRACTOR. ALL UNDERGROUND 90 DEGREE BENDS WITH A 12 INCH (305MM) SAND CUSHION: ASTM C 33; FINE AGGREGATE, NATURAL, OR RADIUS SHALL BE MADE WITH PRE-FABRICATED 90 DEGREE SWEEPING THE INSTALLATION CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING POST APPROVED, SECURITY ESCORTS FOR ALL LOCAL CONTRACTOR PERSONNEL ALL UNDERGROUND CONDUIT SHALL BE CONVERTED FROM SCHEDULE 80 PVC TO RGS FIVE FEET BEFORE TRANSITIONING ABOVE GROUND COMPACTION OF SOIL BACKFILLS AND FILLS 1.C.2. SITE PREPARATION USING PVC TO RGS COUPLERS. PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8-INCHES (203MM) IN LOOSE DEPTH FOR MATERIAL THE LOCAL CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING AND REMOVING ALL DEBRIS FROM THE EMBASSY COMPOUND TO THE LOCAL CONTRACTOR SHALL LEAVE A PULL LINE IN ALL INSTALLED COMPACTED BY HEAVY COMPACTION FOUIPMENT, AND NOT MORE THAN 4-INCHES (102MM) IN LOOSE DEPTH FOR MATERIAL NEAREST AUTHORIZED DUMP FACILITY (AUTHORIZED BY THE TOWN). COMPACTED BY HAND-OPERATED TAMPERS. THE AREAS AFFECTED BY THE LOCAL CONTRACTOR'S WORK MUST BE LOCAL CONTRACTOR WILL INSTALL THE CONDUIT FROM THE HANDHOLE RETURNED BACK TO PRE-CONSTRUCTION CONDITIONS AFTER THE TO HANDHOLE OR THE EXTERIOR PULL BOX AS SHOWN ON DRAWINGS. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF WORK IS COMPLETED. (E.G. GRASS, GRAVEL, SIDEWALK, LANDSCAPING, STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE ALL CONDUIT STUBBED AND CAPPED ABOVE THE GROUND SHALL BE AT A HEIGHT OF NO LESS THAN 12" (305mm) FROM THE GROUND. FULL LENGTH OF EACH STRUCTURE. THE LOCAL CONTRACTOR SHALL LIMIT THE SITE DISTURBANCE TO A MAXIMUM 6 FEET (1829 MM) ON EACH SIDE OF TRENCH. EXCAVATED WHEN THE STUBBED CONDUIT IS NEAR A WALL IT MUST BE AT A COMPACT SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING LEAST 2" (51mm) FROM THE WALL TO ALLOW FOR BOX MOUNTING. PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D MATERIAL WILL BE PLACED NEXT TO THE EXCAVATED AREA TO BE USED AS SELECT BACKFILL. 2.A.4. JUNCTION BOXES UNDER STRUCTURES, BUILDING SLABS, STEPS, AND PAVEMENTS, SCARIFY AND RE-COMPACT TOP 11-INCHES LOCAL CONTRACTOR WILL INSTALL JUNCTION BOXES IN ALL LOCATIONS (280MM) OF EXISTING SUB GRADE AND EACH LAYER OF SHOWN ON DRAWINGS THE EXCAVATION WORK ZONE MUST BE CLEARLY MARKED WITH BACKFILL OR FILL SOIL MATERIAL AT 95 PERCENT WARNING SIGNS AND YELLOW PLASTIC SAFETY TAPE FIXED TO WOOD 2.A.5. CONCRETE POSTS. LOCAL CONTRACTOR MUST COMPLY WITH ALL APPLICABLE UNDER WALKWAYS, SCARIFY AND RE-COMPACT TOP 6-INCHES SAFETY STANDARDS TO PROTECT THE EMBASSY COMPOUND EMPLOYEES, THE PUBLIC AND LOCAL CONTRACTOR WORKERS FROM LOCAL CONTRACTOR WILL PROVIDE LABOR AND MATERIALS TO REPAIR (152MM) BELOW SUB GRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT 92 PERCENT CONCRETE WHERE DISTURBED. CONCRETE COLOR, TYPE AND THICKNESS SHALL MATCH EXISTING. INJURIES AND ACCIDENTS. THE LOCAL CONTRACTOR WILL BE HELD LIABLE FOR INJURIES OR ACCIDENTS SUSTAINED DUE TO NEGLIGENCE UNDER LAWN OR UNPAVED AREAS, SCARIFY AND BY THE LOCAL CONTRACTOR DURING THE COURSE OF THIS PROJECT. CONCRETE USED SHALL BE 25MPA. RE-COMPACT TOP 6-INCHES (152MM) BELOW SUB GRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL 1.C.4. PROTECTION OF THE EMBASSY COMPOUND EQUIPMENT CONCRETE MAY NOT BE POURED IF WEATHER CONDITIONS DO NOT MATERIAL AT 85 PERCENT THE LOCAL CONTRACTOR MUST MAKE SURE THAT THE EMBASSY - FOR UTILITY TRENCHES, COMPACT EACH LAYER OF INITIAL APPROVAL FROM THE SECURITY INSTALLATION SUPERVISOR MUST BE OBTAINED 24 HOURS PRIOR TO POURING OF CONCRETE. THE COMPOUND EQUIPMENT AND PROPERTY IN THE WORK ZONE OR AND FINAL BACKFILL SOIL MATERIAL AT 85 PERCENT SURROUNDING AREAS ARE PROTECTED TO PREVENT THEM FROM EMBASSY COMPOUND AND LOCAL CONTRACTOR CREW SUPERVISOR MUST BE PRESENT DURING THE POURING OF CONCRETE. GETTING DAMAGED DURING CONSTRUCTION. SHOULD ANY REPAIR OR CHANGE HAVE TO BE DONE DUE NEGLIGENCE BY THE LOCAL CONTRACTOR OR ITS WORKERS, THE LOCAL CONTRACTOR WILL BE RESPONSIBLE FOR THE COSTS INCURRED IN THE REPAIR CONCRETE PLACEMENT COMPLY WITH REQUIREMENTS AND WITH RECOMMENDATIONS IN ACI 304R FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE UNCLASSIFIED

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